

WEST Search History

DATE: Wednesday, June 25, 2003

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

L6	L5 and gene with delet\$ with (syncytial or RSV)	48	L6
L5	l1 not l2	132	L5
L4	L3 and syncytial	2	L4
L3	l2 and (respiratroy or RSV) same (gene with deletion)	15	L3
L2	L1 and @ad<19960715	32	L2
L1	(RSV or respiratory adj syncytial) same (gene with delet\$4)	164	L1

END OF SEARCH HISTORY

STN Search History

FILE 'HOME' ENTERED AT 08:02:29 ON 25 JUN 2003

L1 209 (RESPIRATORY (A) SYNCYTIAL OR RSV) AND ((MAJOR (3A) NUCLEOCAPSID
OR N) (P) (NUCELOCAPSID (3N) PHOSPHOPROTEIN OR P) (P) (LARGE
ADJ POLYMERASE OR L))

L3 1 L2 AND (DELETION OR MUTATION OR TRUNCATION) (S) (SMALL (A) HYRDO
PHOBIC OR SH) (A) (GENE OR PROTEIN)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:03:04 ON
25 JUN 2003

L1 209 S (RESPIRATORY (A) SYNCYTIAL OR RSV) AND ((MAJOR (3A) NUCLEOCAP
L2 74 DUP REM L1 (135 DUPLICATES REMOVED)
L3 1 S L2 AND (DELETION OR MUTATION OR TRUNCATION) (S) (SMALL (A) HY
L4 23 S L2 NOT PY>1996
L5 0 S L4 AND (POLYMERASE (2A) ELONGATION)
L6 4 S L4 AND (M2 OR M2#### OR M2-1 OR M2 (A) ORF1 OR M2-ORF1)
L7 6 S L2 AND ELONGATION (S) (FACTOR OR PROTEIN)
L8 2 S L7 AND L4
L9 0 S L8 NOT L6

L6 ANSWER 1 OF 4 MEDLINE
 AN 96133881 MEDLINE
 DN 96133881 PubMed ID: 8552680
 TI Transcription elongation factor of **respiratory syncytial**
 virus, a nonsegmented negative-strand RNA virus.
 AU Collins P L; Hill M G; Cristina J; Grosfeld H
 CS Laboratory of Infectious Diseases, National Institute of Allergy and
 Infectious Diseases, National Institutes of Health, Bethesda, MD
 20892-0720, USA.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
 AMERICA, (1996 Jan 9) 93 (1) 81-5.
 Journal code: 7505876. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199602
 ED Entered STN: 19960306
 Last Updated on STN: 19960306
 Entered Medline: 19960222
 AB RNA synthesis by the paramyxovirus **respiratory syncytial**
 virus, a ubiquitous human pathogen, was found to be more complex than
 previously appreciated for the nonsegmented negative-strand RNA viruses.
 Intracellular RNA replication of a plasmid-encoded "minigenome" analog of
 viral genomic RNA was directed by coexpression of the **N**,
P, and **L** proteins. But, under these conditions, the
 greater part of mRNA synthesis terminated prematurely. This difference in
 processivity between the replicase and the transcriptase was unanticipated
 because the two enzymes ostensibly shared the same protein subunits and
 template. Coexpression of the **M2** gene at a low level of input
 plasmid resulted in the efficient production of full-length mRNA and, in
 the case of a dicistronic minigenome, sequential transcription. At a
 higher level, coexpression of the **M2** gene inhibited
 transcription and RNA replication. The **M2** mRNA contains two
 overlapping translational open reading frames (ORFs), which were
 segregated for further analysis. Expression of the upstream ORF1, which
 encoded the previously described 22-kDa **M2** protein, was
 associated with transcription elongation. A model involving this protein
 in the balance between transcription and replication is proposed. ORF2,
 which lacks an assigned protein, was associated with inhibition of RNA
 synthesis. We propose that this activity renders nucleocapsids
 synthetically quiescent prior to incorporation into virions.

L6 ANSWER 2 OF 4 MEDLINE
 AN 96102154 MEDLINE
 DN 96102154 PubMed ID: 8524804
 TI Production of infectious human **respiratory syncytial**
 virus from cloned cDNA confirms an essential role for the transcription
 elongation factor from the 5' proximal open reading frame of the
M2 mRNA in gene expression and provides a capability for vaccine
 development.
 AU Collins P L; Hill M G; Camargo E; Grosfeld H; Chanock R M; Murphy B R
 CS Laboratory of Infectious Diseases, National Institute of Allergy and
 Infectious Diseases, Bethesda, MD 20892-0720, USA.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
 AMERICA, (1995 Dec 5) 92 (25) 11563-7.
 Journal code: 7505876. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English

FS Priority Journals
 EM 199601
 ED Entered STN: 19960219
 Last Updated on STN: 19960219
 Entered Medline: 19960124
 AB Infectious human **respiratory syncytial** virus (**RSV**) was produced by the intracellular coexpression of five plasmid-borne cDNAs. One cDNA encoded a complete positive-sense version of the **RSV** genome (corresponding to the replicative intermediate RNA or antigenome), and each of the other four encoded a separate **RSV** protein, namely, the **major nucleocapsid N** protein, the **nucleocapsid P** phosphoprotein, the **major** polymerase **L** protein, or the protein from the 5' proximal open reading frame of the **M2** mRNA [**M2** (**ORF1**)]. **RSV** was not produced if any of the five plasmids was omitted. The requirement for the **M2** (**ORF1**) protein is consistent with its recent identification as a transcription elongation factor and confirms its importance for **RSV** gene expression. It should thus be possible to introduce defined changes into infectious **RSV**. This should be useful for basic studies of **RSV** molecular biology and pathogenesis; in addition, there are immediate applications to the development of live attenuated vaccine strains bearing predetermined defined attenuating mutations.

L6 ANSWER 3 OF 4 MEDLINE
 AN 92327836 MEDLINE
 DN 92327836 PubMed ID: 1626423
 TI Gene junction sequences of bovine **respiratory syncytial** virus.
 AU Zamora M; Samal S K
 CS Regional College of Veterinary Medicine, University of Maryland, College Park 20742.
 SO VIRUS RESEARCH, (1992 Jun) 24 (1) 115-21.
 Journal code: 8410979. ISSN: 0168-1702.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199208
 ED Entered STN: 19920821
 Last Updated on STN: 19920821
 Entered Medline: 19920813
 AB The nucleotide sequences of seven gene junctions (**N-P**, **P-M**, **M-SH**, **SH-G**, **G-F**, **F-M2** and **M2-L**) of bovine **respiratory syncytial** virus (BRSV) strain A51908 were determined by dideoxynucleotide sequencing of cDNAs from polytranscript mRNAs and from genomic RNA. By comparison with the consensus sequences derived from human **respiratory syncytial** virus (HRSV) mRNAs, gene-start and gene-end sequences were found in all BRSV mRNAs. There was a perfect match between the BRSV and HRSV in all gene-start sequences, except for the sequence of the **SH** gene which contained one nucleotide difference compared to HRSV A2; and the gene-start sequence of the **L** gene, which was one nucleotide shorter than the corresponding sequence of HRSV. Analysis of the intergenic regions showed a high degree of divergence in the nucleotide sequence between BRSV and HRSV. However, the length of the nucleotides in the intergenic sequences was similar for a given gene junction. As in the case of HRSV, the **M2** and **L** genes of BRSV overlap by 68 nucleotides, suggesting a similar transcription attenuation mechanism. The sequences of the overlap, corresponding to the 3' end of the **L** gene, were almost identical between BRSV and HRSV.

L6 ANSWER 4 OF 4 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AN 95:716951 SCISEARCH
 GA The Genuine Article (R) Number: RZ285
 TI THE COMPLETE GENOME STRUCTURE AND PHYLOGENETIC RELATIONSHIP OF INFECTIOUS
 HEMATOPOIETIC NECROSIS VIRUS
 AU MORZUNOV S P; WINTON J R; NICHOL S T (Reprint)
 CS CTR DIS CONTROL & PREVENT, DIV VIRAL & RICKETTSIAL DIS, 1600 CLIFTON RD
 NE, ATLANTA, GA, 30333 (Reprint); UNIV NEVADA, DEPT BIOCHEM, RENO, NV,
 89557; UNIV NEVADA, DEPT MICROBIOL, RENO, NV, 89557; NW BIOL SCI CTR, NATL
 BIOL SERV, SEATTLE, WA, 98115
 CYA USA
 SO VIRUS RESEARCH, (OCT 1995) Vol. 38, No. 2-3, pp. 175-192.
 ISSN: 0168-1702.
 DT Article; Journal
 FS LIFE
 LA ENGLISH
 REC Reference Count: 64
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 AB Infectious hematopoietic necrosis virus (IHNV), a member of the family
 Rhabdoviridae, causes a severe disease with high mortality in salmonid
 fish. The nucleotide sequence (11,131 bases) of the entire genome was
 determined for the pathogenic WRAC strain of IHNV from southern Idaho.
 This allowed detailed analysis of all 6 genes, the deduced amino acid
 sequences of their encoded proteins, and important control motifs
 including leader, trailer and gene junction regions. Sequence analysis
 revealed that the 6 virus genes are located along the genome in the 3' to
 5' order: nucleocapsid (N), polymerase-associated phosphoprotein
 (P or M1), matrix protein (M or M2), surface
 glycoprotein (G), a unique non-virion protein (NV) and virus polymerase (L).
 The IHNV genome RNA was found to have highly complementary
 termini (15 of 16 nucleotides). The gene junction regions display the
 highly conserved sequence UCURUC(U) (7)RCCGUG(N) (4)CACR (in the
 vRNA sense), which includes the typical rhabdovirus transcription
 termination/polyadenylation signal and a novel putative transcription
 initiation signal. Phylogenetic analysis of M, G and L protein
 sequences allowed insights into the evolutionary and taxonomic
 relationship of rhabdoviruses of fish relative to those of insects or
 mammals, and a broader sense of the relationship of non-segmented
 negative-strand RNA viruses. Based on these data, a new genus, piscivirus,
 is proposed which will initially contain IHNV, viral hemorrhagic
 septicemia virus and Hirame rhabdovirus.